

# GEMS AND GEM MINERALS

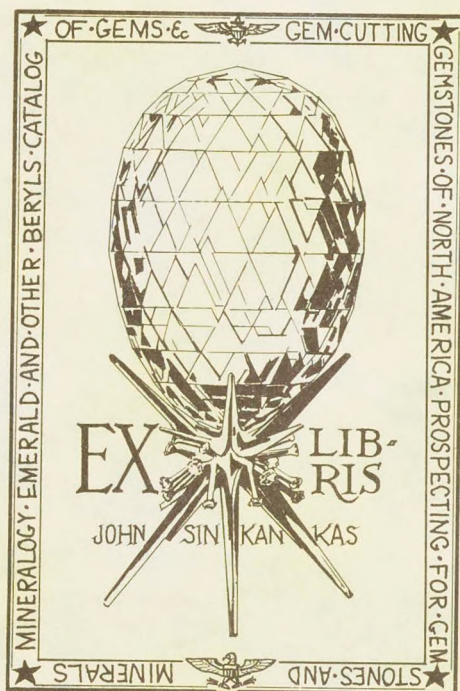
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THE GOETZKE COLLECTION

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J. SINKANKAS





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*With my Compliment*

*Otto Goetzke*

# GEMS AND GEM MINERALS

## *A CATALOG OF THE GOETZKE COLLECTION*

PREPARED BY ANNA H. GILBERT OF  
THE SCIENCE DEPARTMENT UNDER  
THE DIRECTION OF JOHN COTTON DANA

J. SINKANKAS

THE MUSEUM  
NEWARK, NEW JERSEY  
1929





## A NOTE ON THE EXHIBIT

Newark has long been famous for its jewelry and in the making of the best jewelry in gold, platinum and gems is still first of all American cities. Yet it has never before had on public view a collection of the Gem stones of the world. Now it has.

In the Museum, near the entrance, on the first floor, is a collection of all the many kinds of stones that the world uses in its jewelry. It is the result of twenty years of the patient and persistent study of his hobby by a Newark citizen, Mr. Otto Goetzke.

If you have a taste for jewels; if you wish to enrich that taste with knowledge; if you like to see with your own eyes the rare and beautiful stones of which you have heard and read—here are five thousand specimens, drawn from every corner of the world, so displayed as to disclose the beauty and enhance the charm of each.

Seeing this collection, you can easily believe that for completeness and for beauty, and for telling delightfully its story no like collection anywhere excels it.

J. C. D.

## FOREWORD

About 1,600 mineral species are known to Science. Of these approximately 100 are used for precious and semi-precious stones because of their beauty and durability. Popular or trade names are often used for certain gems, but these have standard names as well. The names of the newer gem minerals end in "ite," but the older ones were named before Mineralogy developed as a science, hence the diversity in gem names.

The 5,000 specimens shown in the exhibit and listed in the following pages include gems of almost every known species used during the last few centuries. Many of the mounts bear pieces showing the gradation from the rough stone as it is taken from the earth to the cut and finished gem.

An important feature of this catalog is that it embraces trade names. The trade name often incorporates a locality, but the actual locality may be quite different; for example, Hungarian Cat's Eye from Cape Colony and Madeira Topaz from Uruguay. This is due to the fact that the stones are named for the localities of which they are most typical, and specimens of the same appearance and quality are given the same name whatever the source.

Following the main list of minerals, that are gems, are many specimens that are not minerals but are gems in a large sense. These are parts of plants or animals or materials of vegetable or animal origin. Among these are claws and teeth, shells, pieces of tusks, whole beetles, polished bits of fossil animals, etc. Together they represent ornaments used by the various people of all ages.

The general arrangement of the catalog is as follows:

Minerals

Synthetic Stones

Gems of Organic Origin

Plant Products

Animal Products



Precious Metals

Other Metals and Non-Metals

Enamels

Mosaics

Cameos and Carvings

Pearl Shell

Pearls and Shells with Pearls



The Goetzke Collection as it is listed in the following pages was shown in the East Gallery, near the entrance of the Museum. The 5,000 gems and minerals, in one upright and twelve flat cases, were identified and related with full descriptive labels.



## THE GOETZKE COLLECTION

### Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Actinolite		New York 5
Agate See under Chalcedony		
Albite See under Feldspar		
Amazonite See under Feldspar		
Amber See section Gems of Organic Origin		
Amethyst See under Quartz		
Andalusite	Chiastolite	Brazil 13 Massachusetts 3 Pyrenees 1
Apatite		Maine 6
Aquamarine See under Beryl		
Aragonite See under Calcite		
Asbestos See under Serpentine		
Aventurine See under Quartz, Crystalline		
Azurite		Arizona 6
Azurite—Malachite		Arizona 11
Barite		Not recorded 1

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Basanite See under Chalcedony		
Benitoite		California 5
Beryl		Brazil 9 Connecticut 2 Grafton, N. H., 1 Not recorded 2 Brazil 61 North Carolina 4 Brazil 3 Madagascar 18 Siberian 3 Emerald Brazil 31 Colombia 3 North Carolina 2 Colorado 4 North Carolina 2 Madagascar 2
	Aquamarine	
	Brejauba	
	Madagascar	
	Siberian	
	Emerald	
	Emerald Matrix	
	Morganite	
Beryllonite		Maine 1
Bloodstone See under Chalcedony		
Bronzite See under Pyroxene		
Calcite		Cumberland 2 Not recorded 6 California 1 Not recorded 4 Georgia 1 Not recorded 1 Brazil 2 Not recorded 1 Georgia 1 Not recorded 1 Mexico 9 Somerville, Mass.
	Aragonite	
	Blue Calcite	
	Etowah Marble	
	Geode	
	Lamenate	
	Limestone	
	Marble	
	Marble	
	Mexican Onyx	
	Nailhead	
Cameos See section Cameos and Carvings		
Carnelian See under Chalcedony		



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Cassiterite		Cornwall, England 1
Cat's Eye See under Chalcedony		
Chabazite		Nova Scotia 1
Chalcedony		Germany 1 India 8 Not recorded 1
	Azure	India 5
	Blue	India 2
	Green	India 9
	Indigo	India 2
	Light brown	India 10
	Sapphire	India 7
	Sard	India 12
Chalcedony	Agate	Brazil 1 Germany 12 Ural 2
	African	Africa 1
	Brown Banded	Uruguay 7
	Brown Fortification	Brazil 1 China 2
	Cloudy	Brazil 1 China 2
	Dutch	Germany 7
	Fortification	Germany 1
	Gray	Germany 2
	Mocha Stone	China 30 India 12
	Moss	Not recorded 2
	Black	Montana 16
	Brown	China 9
	Brown and white	China 5
	Green	India 17 Montana 8
	Green and brown	India 4
	Green and red	China 6
	Opal	India 3
	Panama	Panama 2
	Red-banded	Brazil 1
	Red cloudy	Brazil 1
	Scotch	Scotland 1
	Texas	Texas 10

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Chalcedony (Cont'd)	Ural	Ural 1
	White-banded	Germany 2
	Yellow-banded	Brazil 1
	Agate Pebbles	Montana 6
	Agatized wood	Montana 4
	Swiss Lapis	1
	(Colored Agate)	
	Arkansas Stone	Arkansas 3
	Basanite	India 1
	Bloodstone	India 12
		Scotland 7
		Siberia 8
	Egyptian	Egypt 2
	Oriental	India 25
	St. Stephen's Stone	India 7
	Carnelian	Brazil 9
	Chinese	China 5
	Cat's Eye	Cape Colony 111
	Green Cat's Eye	Cape Colony 1
	Hungarian Cat's Eye	Cape Colony 6
	Pink Cat's Eye	Cape Colony 4
	Chrysoprase	California 1
		Germany 14
	Colored Crocidolite	Cape Colony 2
	See also Crocidolite	
	Flint	Brazil 2
		England 5
		Germany 1
		Not recorded 1
	Sard-colored	Not recorded 22
	Jasper	Brazil 4
		California 3
		Germany 1
		Montana 4
	Jasper-Agate	Not recorded 1
	Agate	Germany 35
		Scotland 18
		Sicily 35
	Banded	Ceylon 5
		Siberia 2
	Blue	Germany 9
	Brazilian	Brazil 1
	Brown	Scotland 2
	California	California 2
	Chile	Chile 1



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Chalcedony (Cont'd)	Dark Brown	Germany 3
	Egyptian	Egypt 2
	Green	Ural 1
	Mottled	Texas 1
	Pyrite	India 1
	Red	Germany 6
	Riband	Siberia 1
	Spotted	Germany 24
		Scotland 6
	Yellow	Germany 1
	Jasperized wood	Not recorded 3
	Onyx	California 22
	Black and white	Germany 11
		Not recorded 1
	Black-colored	Germany 2
	Carnelian	Brazil 1
		Germany 2
	True Black	California 4
	Pudding Stone	Colorado 1
	Sard	Ceylon 3
		Minnesota 2
		Not recorded 22
	Intaglios	Not recorded 8
	Sardonyx	Brazil 3
		Germany 1
Chalcopyrite		Not recorded 1
Chlorastrolite		
See under Prehnite		
Chloromelanite		
See under Pyroxene		
Chrysoberyl		Brazil 12
		Not recorded 12
	Alexandrite	Russia 1
	Oriental Cat's Eye	Ceylon 3
Chrysocolla		Arizona 10
		Cornwall, Pa. 1
		Lake Superior 17
		Not recorded 4
	Malachite-Chrysocolla	Arizona 1
Chrysolite		Not recorded 2
	Olivine	Ural Mts. Siberia 14

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Chrysolite (Cont'd)	Peridot	Arizona 18
		Egypt 9
	On Serpentine	Berkes Co., Pa. 1
Chrysoprase		
See under Chalcedony		
Cinnabar		Mexico 6
Coccolite		Not recorded 1
Colophonite		
See under Vesuvianite		
Copperite		Colorado 7
Coral		
See section Cameos and Carvings		
Corundum	Massive	India 1
	Ruby	India 12
	Burma	India 1
	Ceylonese	Ceylon 6
	Corundum	India 1
	Oriental	India 8
	Siam	Siam 28
	Sapphire	
	Aquamarine	India 10
	Australian	Australia 24
	Burmese	India 3
	Ceylon	Ceylon 22
	Golden	Ceylon 9
	Green	Australia 14
	Montana	Montana 16
	Orange tinted	Ceylon 2
	Oriental	India 20
	Pink	Australia 9
	Pink Montana	Montana 1
	Rough	Montana 30
	Star	India 5
	White	Ceylon 22
	Yellow	Ceylon 12
Crocidolite	Tiger Eye	Cape Colony 25
	Hawk's Eye	Cape Colony 9
Crocoite		Brazil 1



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Cyanite		North Carolina 1 Switzerland 10 Not recorded 1
Datolite		New Jersey 6
Diamond, Models of		South Africa 12 49
Diopside See under Pyroxene		
Diopase		Congo 6
Dolomite	Rose	Not recorded 1 Pennsylvania 1
Emerald See under Beryl		
Enhydros See under Quartz		
Epidote		Alaska 20 Creoline, Mass. 4
Feldspar		Brookline, Mass. 2
	Adularia	Not recorded 1
	Albite	Not recorded 2
	Amazonite	Colorado 5
	Blue	Virginia 6
	Labradorite	Labrador 17
	Blue	Labrador 5
	Lamenicite	Maine 2
	Moonstone	
	Blue Moonstone	Ceylon 15
	White Moonstone	India 18
	Orthoclase	Colorado 1 Not recorded 1
	Yellow Orthoclase	Madagascar 1
	Salmon-colored	Pennsylvania 2
	Feldspar	
	Sunstone	Norway 4
Flint See under Chalcedony		
Fluorite		England 1

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Fluorite (Cont'd)		Illinois 5 Not recorded 3
Galena		Not recorded 1
Garnet	Common Pyrope	U. S. A. 4 Germany. Dish con- taining hundreds of rough garnets
	Garnet in Microcline	Not recorded
	Garnet in Schist	Not recorded 1
	Garnet coated with Chalcopyrite	Not recorded 1
Garnets		Madagascar 12 New York 9 Not recorded 11
	African	Africa 9
	Alamandine	India 11
	Arizona	Arizona 42
	Arizona Ruby	Arizona 15
	Bohemian	Bohemia 77
	Candy	Ceylon 9
	Cape	South Africa 15
	Cape Ruby	South Africa 9
	Carbuncle	India 15
	Cinnamon	Ceylon 5
	Common	Alaska 20
	Demantoid	Russia 2
	Essonite	Ceylon 1
	Fachoda	French Congo 14
	Grossularite	Ceylon 1 Mexico 1 Virginia 9
	Hyacinth	India 60
	Indian	Italy 15
	Melanite	North Carolina 9
	Rhodolite	Mexico 3
	Rose	Ceylon 2
	Spessartite	India 11
	Violet	
Geode		
See under Quartz		
Graphite		Not recorded 1
Gypsum		Virginia 1 Not recorded 1



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Gypsum (Cont'd)	Satin Spar Selenite	Iceland 3 Texas 1
Hematite		Lake Superior 4 Not recorded 1 Not recorded 5
	Intaglio	
Hiddenite See under Spodumene		
Indicolite See under Tourmaline		
Iolite		Ceylon 2
Ivory See section Cameos and Carvings		
Jade		China 8 New Zealand 11
	Black	China 1
	Imperial	China 22
	Imperial Gem	China 12
	Mauve	China 1
	Nephrite	China 1
	White	China 1
Jadeite See under Pyroxene		
Jasper See under Chalcedony; section Cameos and Carvings		
Jet See section Gems of Organic Origin		
Kunzite See under Spodumene		
Kyanite See Cyanite		
Lamenicite See under Feldspar		

**Minerals**

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Lazurite	Lapis-Lazuli	Afghanistan 8
	Chile Lapis	Chile 14
Lepidolite		
See Mica		
Limonite		Not recorded 4
Magnesite		Not recorded 1
Magnetite		Not recorded 1
Malachite		Arizona 8
		Russia 14
Malachite and Azurite		Not recorded 3
Marekanite		
See under Obsidian		
Meerschauum		Asia Minor 2
Mica	Jefferisite	West Chester, Pa. 1
	Lepidolite	
	Common	Not recorded 3
	Green	Not recorded 1
	On Chromite	Not recorded 1
	With Rubellite	Not recorded 2
	Muscovite	Grafton, N. H. 1
	Phlogopite	Egansville, Ont. 2
		Not recorded 1
Microcline		Not recorded 1
Millerite on Siderite		Not recorded 10
Molybdenite		Not recorded 1 Box
Moonstone		
See under Feldspar		
Morganite		
See under Beryl		
Mosaics		
See under Mosaics		
Muscovite		
See under Mica		



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Obsidian		Not recorded 3
	Black	Yellowstone 1
	Dark Blue	California 1
	Dark Green	Mexico 1
	Green Slag (often thought to be Ob- sidian)	1
	Marekanite	Mexico 1
	Smoky	Mexico 1
	Thenardite	California 1
Olivine		
See under Chrysolite		
Onyx		
See under Chalce- dony; section Cameos and Carvings		
Oolite		
See section Gems of Organic Origin		
Opal		Not recorded 5
	Opal agate	Not recorded 2
	Opal Jasper	Mexico 2
	Opal Matrix	Australia 21
		Mexico 9
	Opal and Onyx	Not recorded 6
	Opal on Quartzite	Australia 17
	Opalized shell	Australia 4
	Black	Lightning Ridge, Australia 12
	Doublets	Australia 12
	Precious	Australia 4
	Blue Common	Australia 2
	Common White	Australia 4
	Dark	Australia 25
	Fire	Mexico 4
	Precious	Mexico 6
	Gold	Australia 12
	Harlequin	Australia 1
	Milk	Australia 2
	Peacock	Not recorded 2
	Pin-Fire	Australia 7
	Pink	California 1

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Opal (Cont'd)	Prase	Australia 1
	Precious	Hungary 4
		Mexico 14
	Precious White	Australia 12
	Pure	Honduras 31
	Semi-	Mexico 38
	Smoky	Australia 9
	White Cliffs	White Cliffs, Australia
	Wood	California 2
		Hungary 3
		Idaho 16
		Nevada 12
		Not recorded 2
Orthoclase		
See under Feldspar		
Pearls		
See section Pearls		
Peridot		
See under Chrysolite		
Phlogopite		
See under Mica		
Porphyry		Egypt 2
Prehnite		New Jersey 2
	Chlorastrolite	Lake Superior 29
Pudding Stone		
See under Chalcedony		
Pyrite		Not recorded 3
	Coal	Pennsylvania 7
	Iron	New Jersey 8
	With Magnetite	Not recorded 1
	In Slate	Somerville, Mass. 1
Pyrolusite		Michigan 1
Pyrope		
See Garnet		
Pyroxene	Bronzite	New York 1
	Chloromelanite	China 3
	Diopside	Italy 4
	Hypersthene	Labrador 2



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Pyroxene (Cont'd)	Jadeite	Burma 4
Pyrrhotite		Sudbury, Ont. 1
Quartz, Cryptocrystal- line See Chalcedony		
Quartz, Crystalline	Amethyst	Auvergne, France 16 Brazil 6 Colorado 1 New Jersey 1 North Carolina 2 Not recorded 15 Not recorded 1 Not recorded 13 Not recorded 11 Ural 1 Uruguay 15
	Dark Brazilian	
	Georgian	
	Light Brazilian	
	Medium Brazilian	
	Siberian	
	Uruguay	
	Amethyst Chalcedony	Brazil 2
	Aventurine	Ural 2
	California Moonstone (gray chalcedony)	California 6
	Crystal	Montana 2 Not recorded 17 Switzerland 20
	Twinned Crystal	
	Engraved and	
	Painted Crystal	Germany 5
	Crystal and Onyx	Germany 9
	Enhydros	Uruguay 1
	Geode	Montgomery Co., Pa. 2
	Rose	Brazil 3 Germany 6 Not recorded 2
	Rutilated	North Carolina 14
	Smoky	Not recorded 1
	Starolite	U. S. A. 3
	Topaz	
	Brazilian	Brazil 8
	Golden	Brazil 3
	Madeira	Uruguay 8 Not recorded 1
	Scotch	Scotland 4
	Spanish	Spain 8
	Yellow	Brazil 9

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Rhodochrosite		Saxony 5
Rhodonite		New Jersey 4
Rubellite See under Tourmaline		
Rutile		North Carolina 12
Sard See section Cameos and Carvings; see under Chalcedony		
Sardonyx See under Chalcedony		
Satin Spar See under Gypsum		
Scapolite		Massachusetts 1
Selenite See under Gypsum		
Serpentine		England 2 Pennsylvania 5 Sweden 1 United States 2 Not recorded 2 Not recorded 4
	Asbestos	
	Serpentine pseudo- morph after enstatite	Brewster, N. Y. 1
	Williamsite	California 6
Siderite		Pennsylvania 1
Smithsonite		New Mexico 8 United States 2 Not recorded 5
Soapstone See under Talc		
Sodalite (Chinese Lapis)		Maine 6 China 2 Mexico 3



## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Sphalerite		Mexico 2
Spinel	Amethyst	India 9
	Black	Burma 8
	Ruby	India 33
	Sapphire	India 1
		Ceylon 9
		Burma 9
Spodumene		Brazil 1
	Greenish	Brazil 3
	Hiddenite	North Carolina 7 and dish
	Kunzite	California 22
	Pale Blue	Brazil 5
	Pale Yellow	Brazil 2
	White	Brazil 2
Staurolite		Virginia 9
Stilbite		Not recorded 1
Sunstone See under Feldspar		
Talc		North Carolina 2
		Vermont 1
	Soapstone	China 2
	Thomsonite	U. S. A. 24
	Thulite	Norway 8
		Leiperville, Delaware Co., Pa. 1
Thenardite See under Obsidian		
Thomsonite See under Talc		
Thulite See under Talc		
Topaz	Precious	
	Blue	Brazil 4
	Pink	Brazil 9
	White	Japan 10
	Yellow	Brazil 11
		Japan 19

## Minerals

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Tourmaline		Maine 15
		Siberia 2
		Not recorded 16
	Beryl Blue	Ceylon 4
	Beryl Green	Brazil 5
	Black	Brazil 2
	Blue	Brazil 11
	Brown	Ceylon 4
		Maine 1
	Double Color	Brazil 15
		California 2
	Green	Brazil 79, and dish
		California 5
	Pink	Brazil 42
		California 18
		Maine 6
	Triple Color	Madagascar 7
	White	New York 5
	Yellow	Ceylon 19
	Zircon color	Brazil 2
Turquoise	Indicolite	Brazil 1
	Rubellite	Burma 2
		Siberia 2
	In Lepidolite	Not recorded 3
		Arizona 44
		New Mexico 3
	Turquoise Matrix	Africa 4
		Arizona 10
		California 13
		Mexico 13
Vanadnite		Not recorded 9
	Black	Arizona 1
	Amatrice	Arizona 14
Variscite		Not recorded 1
Vesuvianite		Utah 4
		California 1
	Colophonite	Africa 2
		California 5
Vivianite		Not recorded 3
Wernernite		Leadville, Colo. 1 box
		Not recorded 5



**Minerals**

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Willemite		Franklin, N. J. 3
Williamsite See under Serpentine		
Zaratite		Tasmania, Germany 1
Zircon	Bluish Green	Siam 5
	Ceylonese	Ceylon 1
	Green	Ceylon 14
	Hyacinth Red	Australia 11
		Ceylon 29
	Jargon	Ceylon 1

**Synthetic Stones**

Alamandine		1
Alexandrite		3
Aquamarine		2
Hyacinth		5
Kunzite		1
Morganite		1
Ruby		19
Sapphire	Blue	9
	Ceylon	4
	Golden	6
	Pink	10
	White	13
Zircon		1

Also 3 bottles of raw material for synthetic stones.

**Gems of Organic Origin**

## PLANT PRODUCTS

Amber	Clear	Germany 6
	Cloudy	Germany 7
	Insect in	Germany 2

## Gems of Organic Origin

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Jet		Whitby, England 3
Wood Opal		California 3
See also under Minerals, Opal		Montana 2
ANIMAL PRODUCTS		
Bone, Carved		China 9 Switzerland 1
Beetle		Brazil 12
Fossil Coral		Japan 5
Oolite		Iowa 1
Shell	Turtle Tortoise	East Indies 5 Not recorded 2
Teeth and Tusks	Ivory Rough Carved  Painted Elk Teeth Shark Teeth Walrus Tusk	Africa 2 Africa 4 China 1 France 3 Germany 2 Indian Ocean 5 Alaska 3
Claws	Leopard Sloth Antique Carvings	Brazil 2 Brazil 2 Egypt 5

## Precious Metals

Gold	Ore Flake Quartz 14 K Gold with gold, silver and copper in proportion	Mexico 3 Brazil 3 California 5
Silver	Native Ore Bar 830/1000 fine Nuggets 999/1000 fine Sterling Plaque 925/1000 fine	Montana 2 U. S. A. 4 1 16 1



**Precious Metals**

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Platinum		Colombia 3
Tungsten	Ore	Sweden 7
	Metal	3
	Wire .002 inch	
	Refining Process. An exhibit of 6 bottles of powder mounted on card.	

**Other Metals and Non Metals**

Antimonite		Hungary 3
Bismuth	Crystallized	Colorado 1
Carborundum (Manufactured product)		New York 2
Cobalt, Metallic		Canada 21
Copper	Native	1
	Native in Calcite	1
	Crystallized	U. S. A. 3
Graphite	Crude	Ceylon 3

**Enamels**

Enamels	Agate Mortar and Enamel	
	Painted	France 7
		Germany 1
	Dial	Switzerland 1
	Portrait	France 2
	Transparent	Germany 7
		Norway 2
		U. S. A. 8
	Transparent and Painted	Germany 2
		Norway 3
	Liverpool	England 5
	Limoges	France 6
	Antique	France 6
	Original	France 2

## Enamels

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Enamels (Cont'd)	Cloisonné	Peking, China 2
	Raised	Peking, China 1
	Champleve	Peking, China 1
	Peking	Peking, China 1
	Cantonese	Canton, China 1
	Damascene	Japan 2
	Gold Pallion Inlay	France 1
	Kingfisher	China 1
	Lacquer	Japan 1
	Tula-silver	Caucasia 3
	2 dishes containing enamel and 2 chargers used in enameling process	

## Mosaics

Mosaics	Florentine	8
	Italian	5
	Greek (Malachite)	1
	Moorish	Spain 1
	Nurnberg	Nurnberg, Germany 24
	Opal	3
	Roman	7
	Turquoise Ware	Kashmir, India 1

## Cameos and Carvings

Cameos and Carvings	Jasper	2
	Onyx	
	Black	Germany 2
	Black and white	Not recorded 9
		Germany 6
	Black on white, silhouette	Germany 1
	Double Head	Germany 1
	Green and white	Not recorded 7
	White and Gray	Germany 1
	Sard	
	Antique	6
	Dark Brown Chevet	7
	Double Head	1
	Double Head Chevet	1



## Cameos and Carvings

SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Cameos and Carvings (Cont'd)	Sard (Cont'd)	
	Light Brown	10
	True Sard	Germany 2
	Lava	Italy 34
	Wedgwood Ware	England 6
	Coral	Greece 3
		Italy 16
	Moorish	Spain 1
	Pink	Japan 30
	Red	Japan 11
		Italy 13
	Sardinian	Italy 6
	Translucent	Japan 4
	White	Japan 4
	White and Pink	Japan 5
	Shell Cameos	
	Abalone and Pearl	Not recorded 2
	Antique	Italy 8
	Brown and White	Not recorded 9
	Carnelian	Italy 1
		Madagascar 1
		Not recorded 8
	Double Head	1
	Cyprian	Island of Cyprus 10
	Mother of Pearl	Not recorded 3
	Pink	Not recorded 12
	Pink Shelled	
	uncarved	Italy 3
	Sardonyx Shell	Not recorded 1
	Tiger Cowry	Not recorded 1

## Pearl Shell

Pearl Shell		Australia 3
		Not recorded 3
	Abalone	Catalina Island 20
	Blister Pearl	Indian Ocean 19
	Green Snail Pearl	Indian Ocean 1
	Japanese Pear Eye	Japan 7
	Mother of Pearl	Australia 11
	Operculum Shell	Indian Ocean 4
	Snail Pearl	Indian Ocean 10

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 Pearls and Shells with Pearls
 

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SPECIES	VARIETY	LOCALITY AND NO. OF SPECIMENS
Pearls and Shells with Pearls	Abalone	Santa Catalina Island 9
	Abalone, and shell	California 4
	American	Missouri River 25
	Australian, and shell	3
	Baroque	Tennessee 17
		Wisconsin 30
	Baroque, and shell	Indiana 170
	Blister	Missouri River 10
		Oriental 6
	Chambered Nautilus and shell	Tropical Pacific 1
	Clam, and Shell	Long Island Sound 32
	Cluster	Wisconsin 25
	Conch	Key West 28
	Green Snail, and shell	Not recorded 1
	Japanese Pearl shell with cultured pearls	Not recorded 18
	Nautilus	Madagascar 2
	Norwegian Fresh Water	Not recorded 29
	Oriental	Not recorded 39
	Oyster, and shell	Long Island Sound 26
	Panama, and shell	Not recorded 5
	Pearl oyster shell	Indian Ocean 2
	Pearl shell	Mississippi River 5
		Venezuela 1
	Venezuelan	Not recorded 6
	Wing	Tennessee 5





